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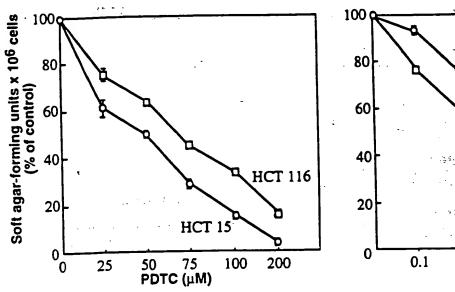
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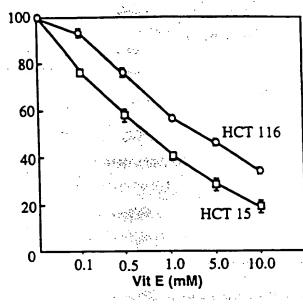


FIGURE 1A

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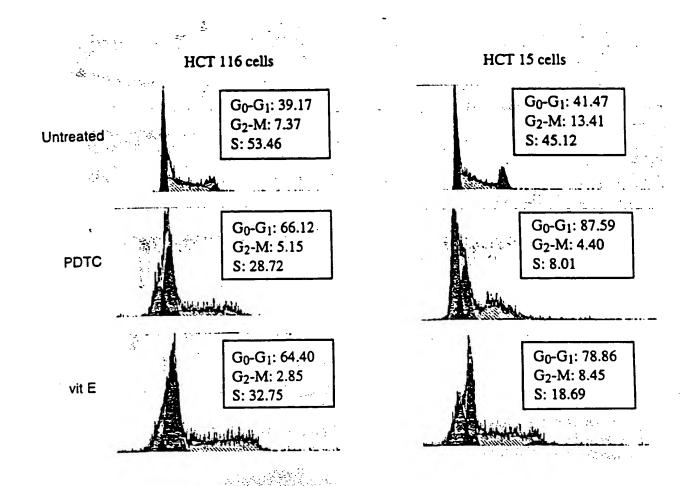


FIGURE 1B

HCT 116

FIGURE 1C

Figure 1D

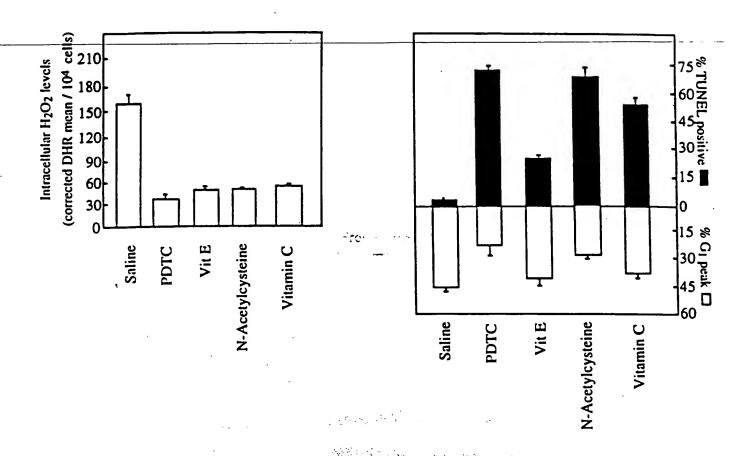
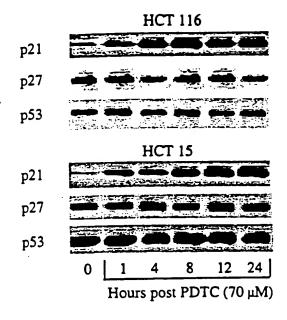


Figure 1E

Sensitization of HCT 116 and HCT 15 colon cancer cells to chemotherapeutic agents by PDTC (70 µM) or vitamin E (3 mM)

Cell line	Drug		IC ₅₀ (μM) ^a	
		- Antioxidant	+PDTC	+vitamin E
HCT 116	5FU	3.8 (±0.21)	1.5 (±0.29)	1.7 (±0.20)
	Doxorubicin	0.32 (±0.07)	0.09 (±0.08)	0.13 (±0.05)
HCT 15	5FU Doxorubicin	11.4 (±0.11) 1.51 (±0.07)	1.01 (±0.09) 0.11 (±0.05)	1.4 (±0.10) 0.17 (±0.04)

^aThe concentration of 5-FU or doxorubicin required to reduce soft agar colony formation by 50% (±s.e.m.). Underscored: signficantly different from -antioxidant group (P<0.01), as determined by analysis of variance with multiple comparison adjustment.



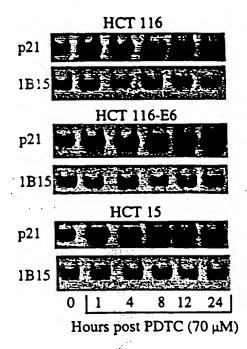


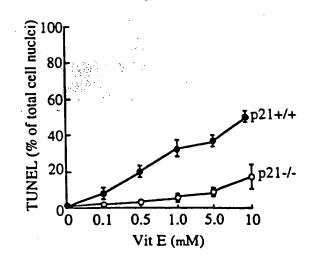
Figure 3C p21+/+ TUNEL (% of total cell nuclei) p21-/-

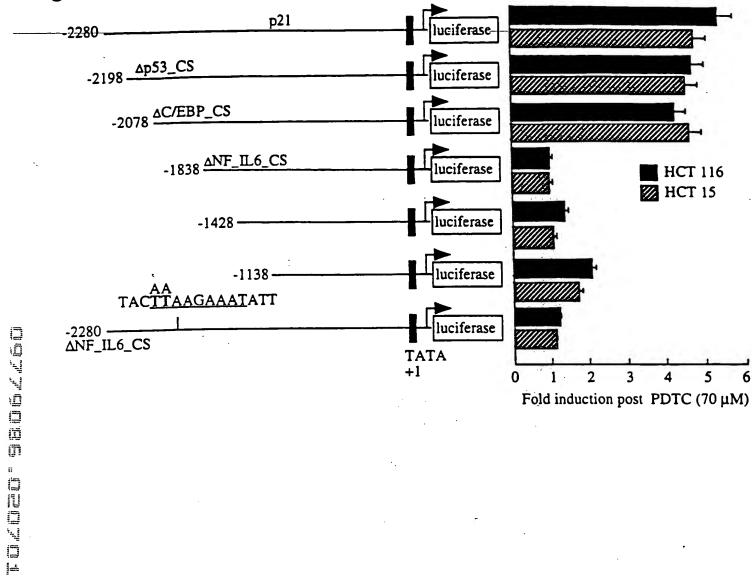
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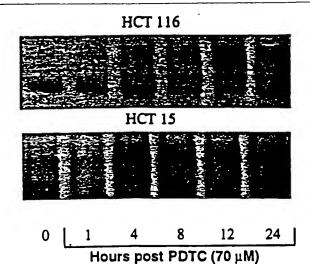
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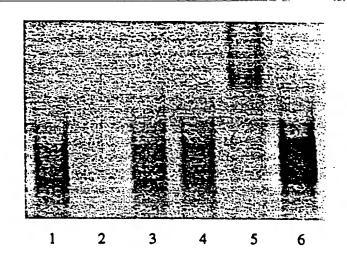
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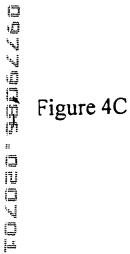
PDTC (µM)











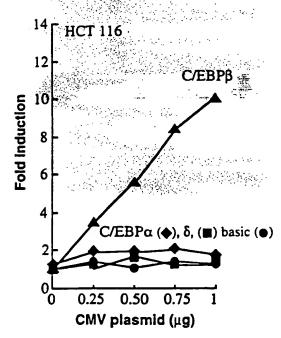
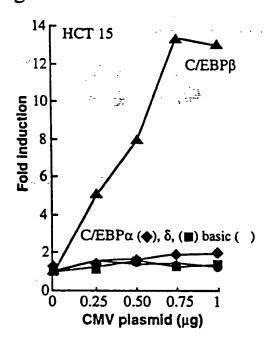


Figure 4D



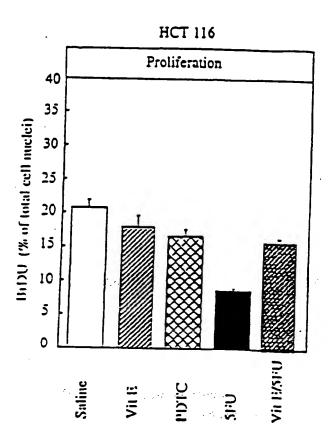


Figure 5A

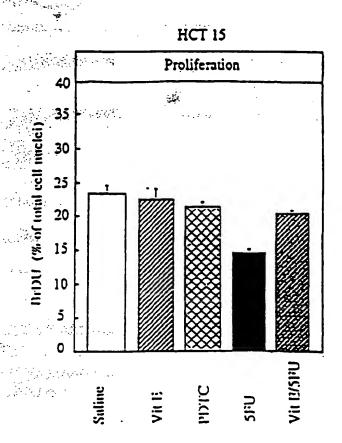


FIGURE 5B

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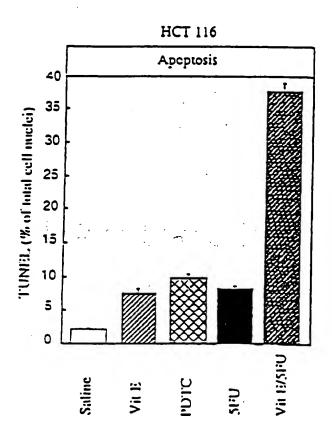


FIGURE 6A

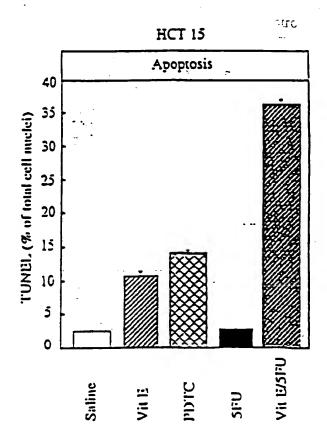
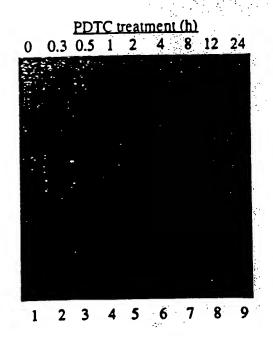


FIGURE 6B



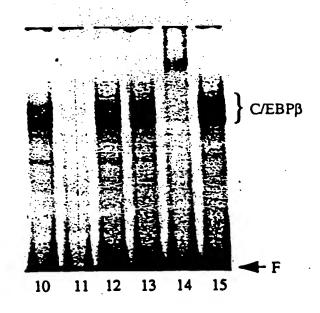


Figure 7A

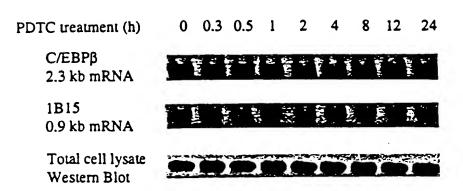
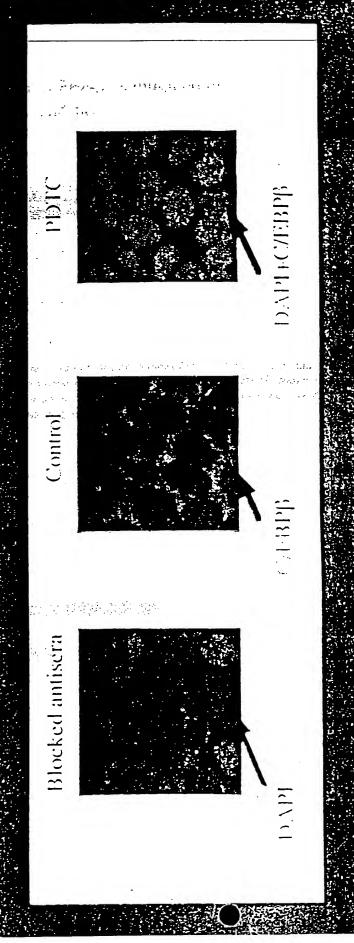


Figure 7B



Figure 7C

Figure 7D



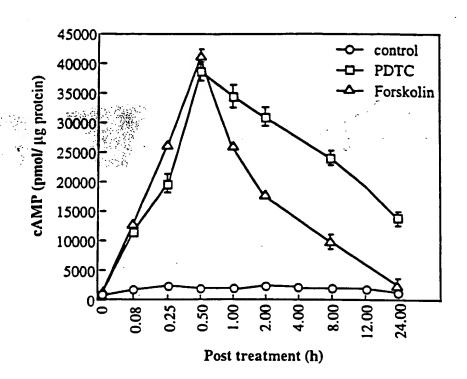


FIGURE 8A

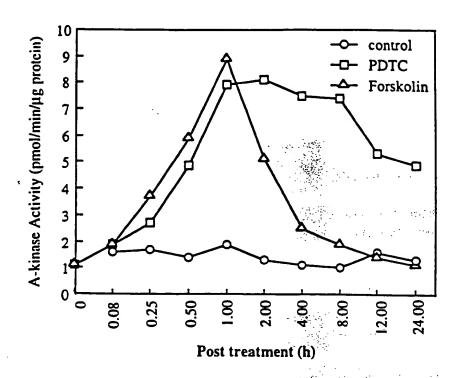
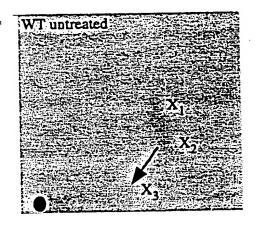
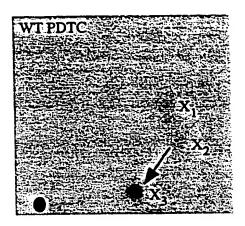
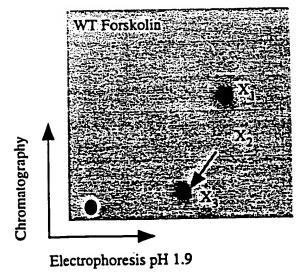


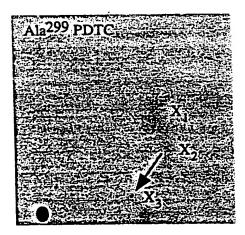
FIGURE 8B

Figure 9B Trypsin cleavage





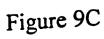


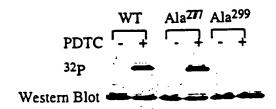


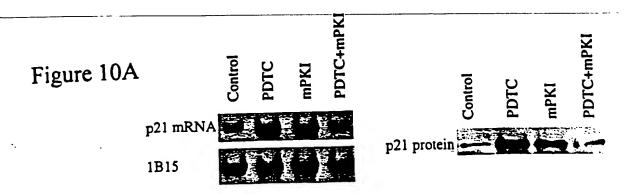
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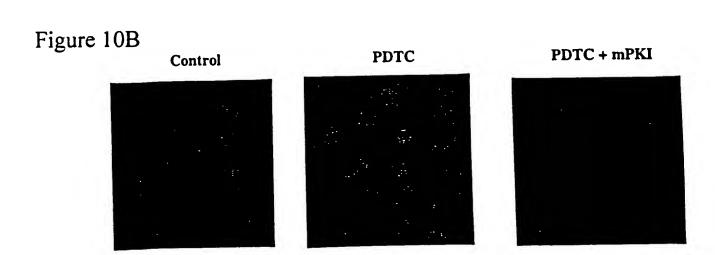
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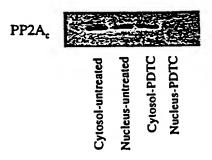








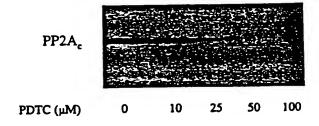
Carboxylmethylation of PP2Ac is Inhibited by Antioxidants



DKO-1 cells were incubated in serum-containing media containing [methyl-3H]S-adenosyl methionine and/or 70µM PDTC for 3 hours. Cytosolic or nuclear fractions were prepared and C/EBP\$ immuno-precipitated using standard methods. Antibody/antigen complexes were resolved by SDS-PAGE and the presence of PP2Ac was detected by fluorography (overnight).

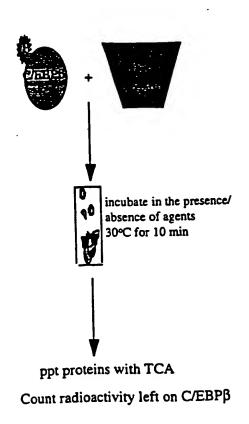
FIGURE 12

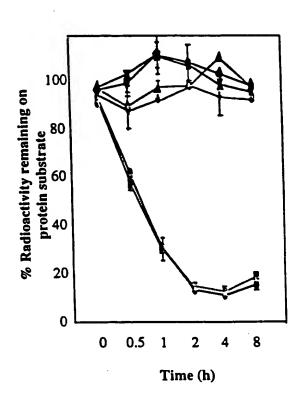
Antioxidants Inhibit Methyltransferase Activity Against PP2Ac



PP2A_{AC} was incubated in the presence of [methyl]³H]S-adenosyl methionine, increasing concentrations of PDTC and partially purified rat methyltransferase for 30 min at 37C. The reaction was terminated by the addition of SDS-sample buffer. Samples were resolved by SDS-PAGE and the presence of methylated PP2A dimers visualized by fluorography.

PDTC Inhibits PP2A, but not PP1, Activity





- --- Control
- + 12 (PP1)
- ▲ Okadaic acid (PP1 and PP2)
- → PDTC
- + I2+PDTC
- Okadaic acid+PDTC

Figure 13

Figure 14 - C/EBPb and PP2ac are components of isolated Methyltransferase activity

Probed with anti-C/EBPB

C/EBPB Probed

Probed with anti-PP2Ac



Rat brain extracts



Partially purified metthyltransferase



Rat brain extracts



Partially purified metthyltransferase

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